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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
. 10/811,392	03/29/2004	Shinji Fujimoto	. Q80680	3071
23373	7590 09/07/2005		EXAMINER	
SUGHRUE MION, PLLC			SHEWAREGED, BETELHEM	
SUITE 800	LVANIA AVENUE, N.W.		ART UNIT	PAPER NUMBER
WASHINGTO	N, DC 20037		1774	

DATE MAILED: 09/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		/ 2 1			
	Application No.	Applicant(s)			
Office Action Summer	10/811,392	FUJIMOTO, SHINJI			
Office Action Summary	Examiner	Art Unit			
The MAIL INC DATE of this committee the	Betelhem Shewareged	1774			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 29 M	<u>farch 2004</u> .				
2a)☐ This action is FINAL . 2b)☒ This	This action is FINAL. 2b)⊠ This action is non-final.				
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	63 O.G. 213.			
Disposition of Claims					
4) ☐ Claim(s) 1-20 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-20 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.	•			
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	epted or b) objected to by the E drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 3/29/04.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa				

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DETAILED ACTION

Claim Objections

1. Claim 12 is objected to because of the following informalities: The position of the thermal recording layer is not clear. It is not clear if the thermal layer is adjacent or opposite the base support. Appropriate correction is required.

Priority

2. Should applicant desire to obtain the benefit of foreign priority under 35 U.S.C. 119(a)-(d) prior to declaration of an interference, a translation of the foreign application should be submitted under 37 CFR 1.55 in reply to this action.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakamura (US 2004/0058166 A1) in view of Tani et al. (2003/0224192 A1) and Tamagawa et al. (US 2005/0020448 A1).

Nakamura comprises a powder coated support comprising a base paper and a resin layer at least on one side of the base paper, wherein the resin layer is formed by fusing a powdery resin composition [0098]. The resin layer is equivalent to the claimed fluorescent whitening agent —containing layer. The powdery resin composition further

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comprises synthetic mica [0046]. The coated support is used in image forming material materials for electrophotography [0103]. Nakamura further teaches having an intermediate layer [0236]. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to use a resin coated paper as the support, because the used of resin coated paper in the electrophotographic recording medium art is commonly known (*see* the disclosure of Tani). Nakamura does not teach the claimed blocking layer.

Tamagawa teaches an image receiving sheet for electrophotography comprises a paper support, a toner image receiving layer, and a coat layer formed between the support and the image receiving layer (claim 21). The coat layer comprises a binder such as polyvinyl alcohol and gelatin [0130], and an inorganic pigment [0129]. The coat layer is equivalent to the claimed blocking layer. Furthermore, since the coat layer is substantially identical to the claimed blocking layer, the coat layer of Tamagawa inherently blocks oxygen. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the coat layer of Tamagawa with the invention of Nakamura so as to control the surface property of the base paper.

Both Nakamura and Tamagawa also use their recording sheet for thermosensitive material (see [0262] and [0363]).

The thickness of the fluorescent whitening agent containing layer and the thickness of the blocking layer are not disclose in the above references. The experimental modification of this prior art in order to ascertain optimum operating conditions fails to render applicants' claims patentable in the absence of unexpected

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results. *In re Aller*, 105 USPQ 233. One of ordinary skill in the art would have been motivated to adjust the thickness of the layers in order to control surface properties, durability, and brittleness of the layers. A prima facie case of obviousness may be rebutted, however, where the results of the optimizing variable, which is known to be result-effective, are unexpectedly good. *In re Boesch and Slaney*, 205 USPQ 215.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Betelhem Shewareged whose telephone number is 571-272-1529. The examiner can normally be reached on Mon.-Fri. 8:00AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye can be reached on 571-272-3186. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

B.S. September 4, 2005.

BETELHEM SHEWAREGED PRIMARY EXAMINER